



REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G102948172

Date: March 7, 2017

REPORT NO. 102948172LAX-002

TEST OF ONE LED INDIRECT ONLY

MODEL NO. C-30-LED35-LO-D1
LED MODEL NO. NICHIA NFSL757D
DRIVER MODEL NO. OSRAM 79399

RENDERED TO

PRUDENTIAL LIGHTING
1774 EAST 21ST STREET
LOS ANGELES, CA 90058-1008

TEST: Electrical and Photometric tests as required to the IESNA test standard.

AUTHORIZATION: The testing performed was authorized by signed quote number Qu-00710638-6.

STANDARDS USED: The following American National Standards or Illuminating Engineering Society of North America Test Guides were used in part or totally to test each specimen:

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

DESCRIPTION OF SAMPLE: The client submitted one prototype sample of model number C-30-LED35-LO-D1. The sample was received by Intertek on February 22, 2017, in undamaged condition and one sample was tested as received. The sample designation was LAN1702221443-002.

DATES OF TESTS: March 6, 2017

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SUMMARY

Model No.:	C-30-LED35-LO-D1
Description:	LED indirect only

Criteria	Result
Total Lumen Output (Lumens)	1604
Total Power (W)	24.19
Luminaire Efficacy (LPW)	66.31
Power Factor	0.998

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Goniophotometer	6440T	000943	03/01/17	04/01/17	03/06/17
AC Source	CW1251P	000944	VBU	VBU	03/06/17
Power Analyzer	WT210	000945	12/05/16	12/05/17	03/06/17
Tape Measure	33-428	001491	01/06/17	01/06/18	03/06/17
Magnetic Level	581-9	001610	09/28/16	09/28/17	03/06/17
Temp. & RH Meter	971	001178	12/22/16	12/22/17	03/06/17

TEST METHODS

Seasoning in Sample Orientation – LED Products

No seasoning was performed in accordance with IESNA LM-79.

Photometric and Electrical Measurements – Distribution Method

A LSI Type C High Speed Model 6440 Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for each sample.

Ambient temperature was measured equal to the height of the sample mounted on the Goniometer equipment. Each sample was operated at input rated voltage in its designated orientation. Each sample was allowed to stabilize for at least thirty minutes before measurements were made. Electrical measurements including voltage, current, and power were measured using the Xitron or Yokogawa Power Analyzer.

Some graphics were created with Photometrics Plus software.

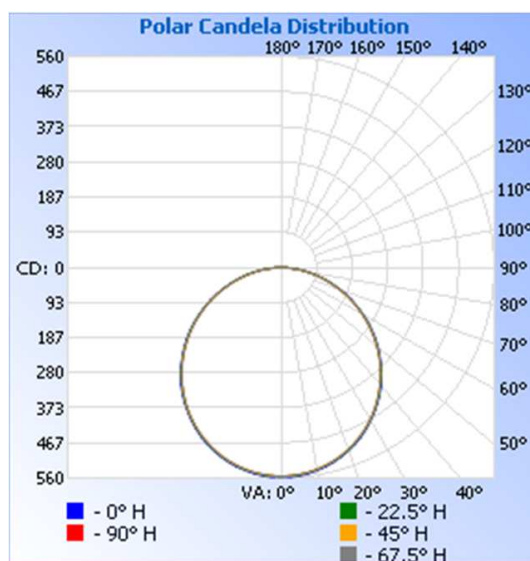
RESULTS OF TEST (cont'd)

Photometric and Electrical Measurements at Ambient Temperature (25°C +/- 1°C) – Distribution Method

Intertek Sample No.	Base Orientation	Input Voltage {Vac}	Input Current (mA)	Input Power (Watts)	Input Power Factor	Absolute Luminous Flux (Lumens)	Lumen Efficacy (LPW)
LAN1702221443-002	Up	120.0	202.0	24.19	0.998	1604	66.31

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	555	555	555	555	555
5	555	553	552	552	552
10	548	546	544	544	545
15	535	533	532	532	532
20	518	516	515	514	515
25	497	495	493	493	493
30	470	469	467	467	468
35	441	439	438	438	438
40	408	406	404	405	405
45	371	370	368	369	369
50	333	331	330	329	330
55	292	290	288	288	288
60	248	247	245	245	245
65	205	202	201	201	202
70	160	158	156	156	158
75	116	114	113	113	115
80	74	72	70	71	73
85	33	32	32	32	33
90	0	0	0	0	0

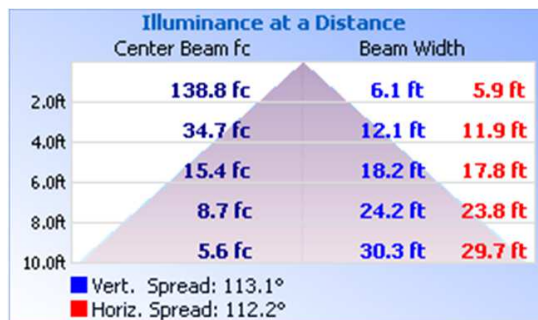


RESULTS OF TEST (cont'd)

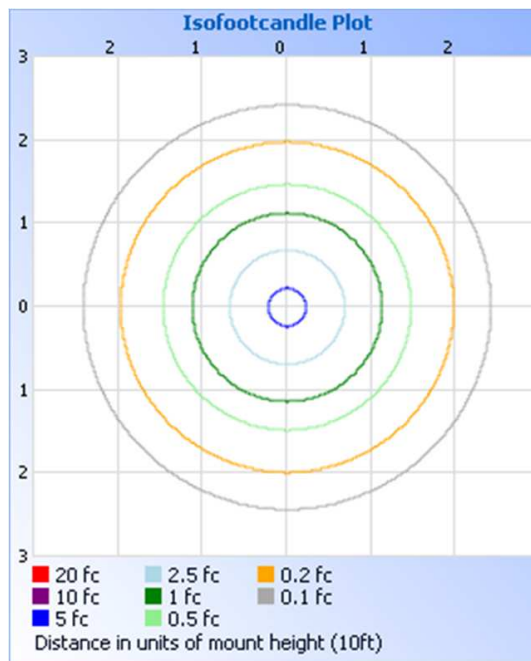
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	430.3	26.8
0-40	704.6	43.9
0-60	1247	77.8
60-90	356.1	22.2
0-90	1604	100.0
90-180	0	0.0
0-180	1604	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	52.5	3.3
10-20	150.3	9.4
20-30	227.5	14.2
30-40	274.3	17.1
40-50	284.7	17.8
50-60	258.2	16.1
60-70	199.6	12.4
70-80	120.2	7.5
80-90	36.3	2.3

PICTURES (not to scale)



CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:



Ameet Alawi
Technician
Lighting Division

Attachment: None

Report Reviewed By:



Timothy Quigley
Engineer
Lighting Division